

**Snell & Wilmer**

L.L.P.

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One Arizona Center  
 Phoenix, Arizona 85004-2202  
 (602) 382-6000  
 Fax: (602) 382-6070  
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DATE: May 31, 2005

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Name	Fax Number	Phone Number
Teresa Walberg, Examiner U.S. Patent and Trademark Office Group Art Unit 3753	703-872-9306	571-272-4790

FROM: Damon Boyd

PHONE: 602-382-6337

RE: Our Docket No. 15730.0800

U.S. Patent Application Serial No. 10/648,571

**MESSAGE:**

Transmitted herewith is a Response to Final Office Action of March 28, 2005 and  
 Advisory Action of March 15, 2005. Thank you.

Sincerely, Damon Boyd, Reg. No. 44,552

ORIGINAL DOCUMENT: Will not be sent

NUMBER OF PAGES (Including Cover):

(19) DG

CONFIRMATION NO.:

CLIENT MATTER NO.: 99999.0000

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REQUESTOR: Damon Boyd

DIRECT LINE: 602-382-6337

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1681286

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I hereby certify that this correspondence, along with accompanying documents, pursuant to 37 C.F.R. §1.6(d), are being sent via facsimile to Examiner T. Walberg at (703) 872-9306 on:

Date: 5-31-05 By: [Signature]  
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**IN THE UNITED STATES PATENT  
AND TRADEMARK OFFICE**

**PATENT**

Applicants:	He et al.	Docket No.:	15730.0800
Serial No.:	10/648,571	Art Unit:	3742
Filed:	August 26, 2003	Examiner:	Walberg, T.
Title:	METHODS AND APPARATUS FOR A VARIABLE RESISTOR CONFIGURED TO COMPENSATE FOR NON-LINEARITIES IN A HEATING ELEMENT	Confirmation No.:	4102

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

Attached herewith is a Response to Final Office Action mailed March 28, 2005 in the captioned matter.

**I. Attached:**

- ☒ Response to Office Action  
☒ Formal Drawings (8 sheets, Figs. 1-9(B))  
☒ Acknowledgment Postcard

**II. Small Entity Status**

- ☐ Small entity status under 37 C.F.R. §§1.9 and 1.27 is claimed.

**FEE CALCULATION, CLAIMS AS AMENDED**

	Claims remaining after amendment		Highest number previously paid for		Present Extra		
Total Effective Claims	16	-	19	=	0	x	\$ 50.00 = 0.00
Independent Claims	2	-	3	=	0	x	\$ 200.00 = \$0.00
If amendment enters proper multiple dependent claim(s) into this application for first time (per application)							\$360.00 + N/A
<b>Subtotal:</b>							<b>0.00</b>

1681276

1

Application No. 10/648,571

**Fee Calculation: Request for Extension of Time  
pursuant to 37 C.F.R. §1.17(a)**

<input type="checkbox"/>	Response filed within <b>first</b> month after due date – add	\$ 120.00 +	N/A
<input type="checkbox"/>	Response filed within <b>second</b> month after due date – add	\$ 450.00 +	N/A
<input type="checkbox"/>	Response filed within <b>third</b> month after due date – add	\$ 1020.00 +	N/A
<input type="checkbox"/>	Response filed within <b>fourth</b> month after due date – add	\$1590.00 +	N/A
<input type="checkbox"/>	Response filed within <b>fifth</b> month after due date – add	\$2160.00 +	N/A
	<b>Subtotal:</b>		<b>\$0.00</b>

If one of the "small entity" boxes above is checked, enter half (1/2) of the Subtotal and subtract.

N/A

**TOTAL FEES DUE      \$0.00****III. Manner of Payment**

- ☐ Snell & Wilmer Check No. \_\_\_\_\_ in the amount of \$ \_\_\_\_\_.
- ☐ Please charge Deposit Account No. 19-2814 in the amount of \$ \_\_\_\_\_.
- A duplicate copy of this sheet is attached for this purpose.**
- ☒ No additional fee is required.

**This statement does NOT authorize charge of the issue fee.** The Commissioner is hereby authorized to charge any other fee specifically authorized hereafter, or any **deficiency** in the fee(s) filed, or asserted to be filed, or which should have been filed herewith or concerning any paper filed hereafter, and which may be required under 37 C.F.R. §§1.16-1.18 (**deficiency only**) now or hereafter relative to this Application and the resulting Official document under 37 C.F.R. §1.20, or credit any overpayment to Account No. 19-2814 for which purpose a duplicate copy of this sheet is attached.

Respectfully submitted,

Date: 31 May 2005By: 

Damon L. Boyd, Reg. No. 44,552

**Snell & Wilmer L.L.P.**  
One Arizona Center  
400 East Van Buren  
Phoenix, Arizona 85004-2202  
(602) 382-6337

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Commissioner for Patents  
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COPY

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Independent Claims	2	3	= 0	x \$ 200.00 =	\$0.00
If amendment enters proper multiple dependent claim(s) into this application for first time (per application)				\$360.00 +	N/A
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1681276

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Application No. 10/648,571

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pursuant to 37 C.F.R. §1.17(a)**

<input type="checkbox"/>	Response filed within first month after due date – add	\$ 120.00 +	N/A
<input type="checkbox"/>	Response filed within second month after due date – add	\$ 450.00 +	N/A
<input type="checkbox"/>	Response filed within third month after due date – add	\$ 1020.00 +	N/A
<input type="checkbox"/>	Response filed within fourth month after due date – add	\$ 1590.00 +	N/A
<input type="checkbox"/>	Response filed within fifth month after due date – add	\$ 2160.00 +	N/A
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If one of the "small entity" boxes above is checked, enter half (1/2) of the Subtotal and subtract.

N/A

**TOTAL FEES DUE     \$0.00****III. Manner of Payment**

- ☐ Snell & Wilmer Check No. \_\_\_\_\_ in the amount of \$ \_\_\_\_\_.
- ☐ Please charge Deposit Account No. 19-2814 in the amount of \$ \_\_\_\_\_.
- A duplicate copy of this sheet is attached for this purpose.**
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**This statement does NOT authorize charge of the issue fee.** The Commissioner is hereby authorized to charge any other fee specifically authorized hereafter, or any deficiency in the fee(s) filed, or asserted to be filed, or which should have been filed herewith or concerning any paper filed hereafter, and which may be required under 37 C.F.R. §§1.16-1.18 (deficiency only) now or hereafter relating to this Application and the resulting Official document under 37 C.F.R. §1.20, or credit any overpayment to Account No. 19-2814 for which purpose a duplicate copy of this sheet is attached.

Respectfully submitted,

Date: 31 May 2005By:   
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Date: 5-31-05By: Gui Nieh

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AND TRADEMARK OFFICE****PATENT**

Applicants:	He et al.	Docket No.:	15730.0800
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Filed:	August 26, 2003	Examiner:	Walberg, T.
Title:	METHODS AND APPARATUS FOR A VARIABLE RESISTOR CONFIGURED TO COMPENSATE FOR NON-LINEARITIES IN A HEATING ELEMENT		
Confirmation No.:	4102		

**RESPONSE**

Mail Stop Non-Fec Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Commissioner:

In response to the Final Office Action dated March 28, 2005, Applicants offer the following response. Applicants note that May 28, 2005, fell on a Saturday, and that Monday, May 30, 2005 was a holiday, accordingly, the period for response is automatically extended to and including Tuesday, May 31, 2005.

**Amendments to the Claims and Claim Listing begins on page 3 of this document.**

**Remarks begin on page 5 of this document.**